

Amendments to the Claims:

Claims 1-11 are pending in this application. Claims 1 and 9 are independent. Claims 1-4, 6 and 8-10 were rejected. Claim 11 is allowed. Claims 5 and 7 are objected to as being dependent upon a rejected base claim but would be allowable if rewritten in independent form. Claims 1, 4 and 11 are herein amended. Claims 3, 5, 9 and 10 are cancelled without prejudice or disclaimer. New claim 12 is added. No new matter has been added by these amendments.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 (CURRENTLY AMENDED): A zoom lens comprising, in order from an object side,
 a first lens unit of positive refractive power;
 a second lens unit of negative refractive power;
 a third lens unit of positive refractive power;
 a fourth lens unit of negative refractive power, wherein said fourth lens unit
comprises two or more lens components including a lens component of negative refractive
power; and
 a fifth lens unit of positive refractive power,
 wherein predetermined lens units move during zooming from a wide-angle end to
a telephoto end so that a separation between said first and second lens units increases, a
separation between said second and third lens unit decreases, a separation between said third and
fourth lens units increases, and a separation between said fourth and fifth lens unit decreases, and
 wherein an image is displaced by moving the lens component of negative
refractive power in said fourth lens unit so as to have a component of a direction perpendicular to
an optical axis of said zoom lens, and

PATENT

Application Serial No. 09/966,698
Amendment dated January 8, 2004
Reply to Office Action of October 8, 2003
Docket No. 1232-4767

wherein a condition $0.01 < f_{is}/f_4 < 0.8$ is satisfied where f_{is} is a focal length of said lens component of negative refractive power so as to have the component of the direction perpendicular to the optical axis, and f_4 is a focal length of the fourth lens unit.

2 (ORIGINAL): A zoom lens according to claim 1, wherein said zoom lens forms an image on a photoelectric conversion element.

3 (CANCELLED):

4 (CURRENTLY AMENDED): A zoom lens according to claim 3 1, wherein said fourth lens unit includes a lens component of positive refractive power and said lens component of negative refractive power.

5 (CANCELLED):

6 (ORIGINAL): A zoom lens according to claim 3, wherein the fourth lens unit includes, in order from the object side, a lens component of positive refractive power, and said lens component of negative refractive power that displaces an image by moving said lens component of negative refractive power so as to have the component of the direction perpendicular to the optical axis.

PATENT

Application Serial No. 09/966,698
Amendment dated January 8, 2004
Reply to Office Action of October 8, 2003
Docket No. 1232-4767

7 (PREVIOUSLY PRESENTED): A zoom lens according to claim 3, wherein a condition -
 $0.8 < rt < -0.1$ is satisfied where rt is a lateral magnification at a telephoto end of optical part
disposed closer to an image plane than said lens component of negative refractive power that is
moved so as to have the component of the direction perpendicular to the optical axis of said
zoom lens.

8. (ORIGINAL) A zoom lens according to claim 4, wherein the lens component of positive
refractive power comprises a cemented lens of a positive lens and a negative lens or a single
positive lens, and the lens component of negative refractive power comprises a cemented lens of
a positive lens and a negative lens.

9-10 (CANCELLED):

11 (CURRENTLY AMENDED): A zoom lens comprising in order from an object side,
a first lens unit of positive refractive power;
a second lens unit of negative refractive power;
a third lens unit of positive refractive power;
a fourth lens unit of negative refractive power; and
a fifth lens unit of positive refractive power,
wherein predetermined lens units move during zooming from wide-angle end to a
telephoto end so that a separation between said first and second lens units increases, a separation

PATENT

Application Serial No. 09/966,698
Amendment dated January 8, 2004
Reply to Office Action of October 8, 2003
Docket No. 1232-4767

between said second and third lens units decreases, a separation between said third and fourth

lens units increases, and a separation between said fourth and fifth lens units decreases,

wherein an image is displaced by moving at least part of the fourth lens unit so as to have a component of a direction perpendicular to an optical axis of said zoom lens, and

wherein said zoom lens satisfies the following condition:

$$-0.5 < \beta_{rt} < -0.2$$

where β_{rt} is a lateral magnification at a telephoto end of optical part disposed closer to an image plane than said at least part of the fourth lens unit so as to have a component of a direction perpendicular to the optical axis of said zoom lens.

12 (NEW): A zoom lens comprising, in order from an object side:

a first lens unit of positive refractive power;

a second lens unit of negative refractive power;

a third lens unit of positive refractive power;

a fourth lens unit of negative refractive power, where said fourth lens unit comprises two or more lens components including a lens component of negative refractive power, and

a fifth lens unit of positive refractive power,

wherein predetermined lens units move during zooming from a wide angle end to a telephoto end so that a separation between said first and second lens units increases, a separation between said second and third lens units decreases, a separation between said third

PATENT

Application Serial No. 09/966,698

Amendment dated January 8, 2004

Reply to Office Action of October 8, 2003

Docket No. 1232-4767

and fourth lens units increases, and a separation between said fourth and fifth lens units decreases,

wherein an image is displaced by moving the lens component of negative refractive power in said fourth lens unit so as to have a component of a direction perpendicular to an optical axis of said zoom lens, and

wherein a condition $-0.8 < \beta_{rt} < -0.1$ is satisfied where β_{rt} is a lateral magnification at a telephoto end of optical part disposed closer to an image plane than said lens component of negative refractive power that is moved so as to have the component of the direction perpendicular to the optical axis of said zoom lens.